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10/086,586	03/01/2002	Myron H. Greenbaum	ITT 3.0-008	9014

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LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK
600 SOUTH AVENUE WEST
WESTFIELD, NJ 07090

EXAMINER

TRIEU, VAN THANH

ART UNIT	PAPER NUMBER
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2632

DATE MAILED: 05/29/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/086,586

Applicant(s)

GREENBAUM, MYRON H.

Examiner

Van T Trieu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 March 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-48 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-48 are rejected under 35 U.S.C. 102(b) as being anticipated by **Monroe** [US 5,798,458].

Regarding claim 1, the claimed one or more black boxes (the aircraft black boxes 52 and/or data and voice black boxes (not shown), see Figs. 1, 2 and 4, col. 3, lines 13-15 and col. 5, lines 60-63); and the one or more transmitters (wireless transmitters 116e-m, see Figs. 4-9, col. 6, lines 24-27); and the one or more sensors (sensors 19e-19m, see Figs. 4-9, col. 3, lines 28-32, col. 5, lines 11-32 and col. 6, lines 2-38).

Regarding claim 2, the claimed processor/modem that receives and compressed the aircraft operational data (the DSP 296, 696 and/or multiplexer/compressor 96, see Figs. 4-13, col. 6, lines 1-17, col. 7, lines 10-67 and col. 11, lines 36-38).

Regarding claim 3, the claimed bus to which the black box, the processor and the one or more transmitters are connected (the line 212 connected between the DSP/multiplexer 96, black box/recorder 52, and ground link radio 76, 80 see Fig. 4.

Regarding claim 4, the claimed ground-base receiver (ground-base receiving data relating to critical components and areas of and aircraft during flight by aircraft ground link transceiver 76, see Fig. 4, col. 4, lines 11-14 and col. 6, lines 46-52).

Regarding claim 5, the claimed satellite receiver (GPS receiver 72, see Figs. 4 and 7, col. 6, lines 54-60).

Regarding claim 6, all the claimed subject matters are cited in respect to claim 1 above, and including the sensors 19e-19m with corresponding transmitters 116e-116m, see Figs. 4-9).

Regarding claim 7, all the claimed subject matters are cited in respect to claim 1 above, and including the sensors 19e-19m with corresponding transmitters 116e-116m, see Figs. 4-9).

Regarding claim 8, all the claimed subject matters are cited in respect to claim 1 above, and including the data and voice black boxes 52.

Regarding claim 9, all the claimed subject matters are cited in respect to claim 1 above, see col. 5, lines 60-61

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Regarding claim 10, all the claimed subject matters are cited in respect to claim 1 above, the voice black boxes (not shown), see col. 5, lines 62-65.

Regarding claim 11, all the claimed subject matters are cited in respect to claim 1 above.

Regarding claim 12, all the claimed subject matters are cited in respect to claim 1 above, the wireless transmitters 116e-116m, see Figs. 4-9.

Regarding claim 13, all the claimed subject matters are cited in respect to claim 1 above, and including the different frequency of each transmitter (unique frequency for each transmitters 116e-116m, see Fig. 4-9, col. 9, lines 52-55 and col. 12, lines 18-27)

Regarding claim 14, all the claimed subject matters are cited in respect to claim 1 above, and the sensor readings (the pilot monitor, display and indicators 55 for displaying/indicating parameters from each sensors 19a-19m, see Figs. 3, 7-9 and 12, col. 5, lines 63-65 and col. 6, lines 6-14); and the control signals (control panel 54 and control module 86, see Figs. 1 and 12, col. 5, lines 63-65 and col. 8, lines 18-67 and col. 9, lines 1-41).

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Regarding claim 15, all the claimed subject matters are cited in respect to claim 1 above, and including voice signals in the cockpit 18 for recording in a voice recorder or voice black box 52, see Fig. 1.

Regarding claim 16, all the claimed subject matters are cited in respect to claim 1 above, and including the video image sensor devices 20-50, see col. 5, lines 40-59 and col. 8, lines 26-55).

Regarding claim 17, all the claimed subject matters are cited in respect to claim 1 above, the sensors 19a-19m, the wireless transmitters 116e-116m and the data and voice recorders 52, see Figs. 4-9.

Regarding claim 18, all the claimed subject matters are cited in respect to claims 2 and 19 above.

Regarding claim 19, all the claimed subject matters are cited in respect to claims 6 and 17 above.

Regarding claim 20, all the claimed subject matters are cited in respect to claims 7 and 17 above.

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Regarding claim 21, all the claimed subject matters are cited in respect to claims 4 and 16 above.

Regarding claim 22, all the claimed subject matters are cited in respect to claims 5 and 16 above,

Regarding claim 23, all the claimed subject matters are cited in respect to claims 14 and 19 above.

Regarding claim 24, all the claimed subject matters are cited in respect to claims 15 and 19 above.

Regarding claim 25, all the claimed subject matters are cited in respect to claims 16 and 24 above.

Regarding claim 26, the method claimed limitations are met by the apparatus claim 1 above.

Regarding claim 27, all the claimed subject matters are cited in respect to claims 2 and 26 above.

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Regarding claim 28, all the claimed subject matters are cited in respect to claims 2 and 26 above.

Regarding claim 29, all the claimed subject matters are cited in respect to claims 3 and 26 above, see Figs. 4-9.

Regarding claim 30, all the claimed subject matters are cited in respect to claims 3 and 27 above, see Figs. 4-9.

Regarding claim 31, all the claimed subject matters are cited in respect to claims 4 and 26 above.

Regarding claim 32, all the claimed subject matters are cited in respect to claims 5 and 26 above.

Regarding claim 33, all the claimed subject matters are cited in respect to claims 14 and 26 above.

Regarding claim 34, all the claimed subject matters are cited in respect to claims 15 and 26 above.

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Regarding claim 35, all the claimed subject matters are cited in respect to claims 16 and 34 above.

Regarding claim 36, the method claimed limitations are met by the apparatus claim 17 above.

Regarding claim 37, all the claimed subject matters are cited in respect to claims 2 and 36 above.

Regarding claim 38, all the claimed subject matters are cited in respect to claims 3 and 36 above.

Regarding claim 39, all the claimed subject matters are cited in respect to claims 1 and 2 above.

Regarding claim 40, all the claimed subject matters are cited in respect to claim 39 above, and including the black boxes.

Regarding claim 41, all the claimed subject matters are cited in respect to claim 39 above, and including the transmitters 116e-116m, see Figs. 4-9.

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Regarding claim 42, all the claimed subject matters are cited in respect to claims 5 and 39 above.

Regarding claim 43, all the claimed subject matters are cited in respect to claim 39 above, the additional sensors 19e-19m and additional transmitters 116e-116m, see Figs. 1 and 4-9.

Regarding claim 44, all the claimed subject matters are cited in respect to claims 1 and 2 above.

Regarding claim 45, the method claimed limitations are met by the apparatus claims 1 and 2 above.

Regarding claim 46, all the claimed subject matters are cited in respect to claims 4 and 45 above.

Regarding claim 47, all the claimed subject matters are cited in respect to claims 5 and 45 above.

Regarding claim 48, all the claimed subject matters are cited in respect to claim 1 above.

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Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Monroe discloses a wireless safety and surveillance recorder system for aircraft incorporating of strategically spaced wireless sensors for monitoring critical components and operation characteristics of the aircraft. [US 6,009,356]

3. Any inquiry concerning this communication or earlier communications from examiner should be directed to primary examiner **Van Trieu** whose telephone number is (703) 308-5220. The examiner can normally be reached on Mon-Fri from 7:00 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. **Danial Wu** can be reached on (703) 308-6730.

The office facsimile number is (703) 872-9314.

A handwritten signature in black ink, appearing to read 'Van Trieu', with a long horizontal flourish extending to the right.

Van Trieu
Primary Examiner
Date: 5/22/03